



PCT10

ENTERED

## RAW SEQUENCE LISTING

DATE: 03/08/2002

PATENT APPLICATION: US/10/069,623

TIME: 14:33:40

Input Set : A:\06727.010002.SEQLIST.TXT

Output Set: N:\CRF3\03082002\J069623.raw

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4 <110> APPLICANT: Mulroy, Robert
5   Lindsay, Stace
7 <120> TITLE OF INVENTION: USE OF rAFP TO INHIBIT OR PREVENT
8   APOPTOSIS
10 <130> FILE REFERENCE: 06727/010002
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/069,623
C--> 12 <141> CURRENT FILING DATE: 2002-02-26
12 <150> PRIOR APPLICATION NUMBER: PCT/US00/24129
13 <151> PRIOR FILING DATE: 2000-09-01
15 <150> PRIOR APPLICATION NUMBER: US 60/152,166
16 <151> PRIOR FILING DATE: 1999-09-02
18 <160> NUMBER OF SEQ ID NOS: 8
20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 2027
24 <212> TYPE: DNA
25 <213> ORGANISM: Homo sapiens
27 <400> SEQUENCE: 1
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29 caattttttt aattttccta ctaaatttta ctgaatccag aacactgcat agaaatgaat 120
30 atggaatagc ttccatattg gattccttacc aatgtactgc agagataagt ttagctgacc 180
31 tggctaccat attttttgcc cagtttggtc aagaagccac ttacaaggaa gtaagcaaaa 240
32 tggtgaaaga tgcattgact gcaattgaga aaccactgag agatgaacag tcttcagggg 300
33 gtttagaaaa ccagctacct gcctttcttg aagaactttg ccatgagaaa gaaatttttg 360
34 agaagtacgg acattcagac tgetgcagcc aaagtgaaga gggaagacat aactgttttc 420
35 ttgcacacaa aaagcccact gcagcatgga tcccactttt ccaagttcca gaacctgtca 480
36 caagctgtga agcatatgaa gaagacaggg agacattcat gaacaaattc atttatgaga 540
37 tagcaagaag gcattccctc ctgtatgcac ctacaattct tcttcgggct gctgggtatg 600
38 agaaaaaat tccatcttgc tgcaaaagctg aaaatgcagt tgaatgcttc caaacaagg 660
39 cagcaacagt taaaaagaa ttaagagaaa gcagcttgtt aaatcaacat gcatgtccag 720
40 taatgaaaaa ttttgggacc cgaactttcc aagccataac tgttactaaa ctgagtcaga 780
41 agttttacca agttaatttt actgaaatcc agaaactagt cctggatgtg gcccatgtac 840
42 atgagcactg ttgcagagca gatgtgctgg attgtctgca ggatggggaa aaaatcatgt 900
43 cctacatatg ttctcaacaa gacactctgt caaacaacaa aacagaatgc tgcaaaactga 960
44 ccacgctgga acgtgggtcaa tgtataattc atgcagaaaa tgatgaaaaa cctgaagggtc 1020
45 tatctccaaa tctaaacagg tttttaggag atagagattt taaccaattt tcttcagggg 1080
46 aaaaaaatat cttcttggca agttttgttc atgaatatc aagaagacat cctcagcttg 1140
47 ctgtctcagt aattctaaga gttgctaaag gataccagga gttattggag aagtgtttcc 1200
48 agactgaaaa ccctcttgaa tgccaagata aaggagaaga agaattacag aaatacatcc 1260
49 aggagagcca agcattggca aagcgaagct gcggcctctt ccagaaacta ggagaatatt 1320
50 acttacaaaa tgagttttctc gttgcttaca caaagaaagc cccccagctg acctcgtcgg 1380
51 agctgatggc catcaccaga aaaatggcag ccacagcagc cacttggtgc caactcagtg 1440
52 aggacaaact attggcctgt ggcgagggag cggctgacat tattatcgga cacttatgta 1500

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53 tcagacatga aatgactcca gtaaaccctg gtgttgccca gtgctgcact tcttcatatg 1560
54 ccaacaggag gccatgcttc agcagcttgg tgggtggatga aacatatgtc cctcctgcat 1620
55 tctctgatga caagttcatt ttccataagg atctgtgccca agctcagggg gtagecgtgc 1680
56 aaaggatgaa gcaagagttt ctcatataacc ttgtgaagca aaagccacaa ataacagagg 1740
57 aacaacttga ggctctcatt gcagatttct caggcctgtt ggagaaatgc tgccaaggcc 1800
58 aggaacagga agtctgcttt gctgaagagg gacaaaaact gatttcaaaa actggtgctg 1860
59 ctttggggagt ttaaattact tcaggggaag agaagacaaa acgagtcctt cattcggtgt 1920
60 gaacttttct ctttaatttt aactgattta acactttttg tgaattaatg aaatgataaa 1980
61 gacttttatg tgagatttcc ttatcacaga aataaaatat ctccaaa 2027
63 <210> SEQ ID NO: 2
64 <211> LENGTH: 590
65 <212> TYPE: PRT
66 <213> ORGANISM: Homo sapiens
68 <400> SEQUENCE: 2
69 Thr Leu His Arg Asn Glu Tyr Gly Ile Ala Ser Ile Leu Asp Ser Tyr
70 1 5 10 15
71 Gln Cys Thr Ala Glu Ile Ser Leu Ala Asp Leu Ala Thr Ile Phe Phe
72 20 25 30
73 Ala Gln Phe Val Gln Glu Ala Thr Tyr Lys Glu Val Ser Lys Met Val
74 35 40 45
75 Lys Asp Ala Leu Thr Ala Ile Glu Lys Pro Thr Gly Asp Glu Gln Ser
76 50 55 60
77 Ser Gly Cys Leu Glu Asn Gln Leu Pro Ala Phe Leu Glu Glu Leu Cys
78 65 70 75 80
79 His Glu Lys Glu Ile Leu Glu Lys Tyr Gly His Ser Asp Cys Cys Ser
80 85 90 95
81 Gln Ser Glu Glu Gly Arg His Asn Cys Phe Leu Ala His Lys Lys Pro
82 100 105 110
83 Thr Ala Ala Trp Ile Pro Leu Phe Gln Val Pro Glu Pro Val Thr Ser
84 115 120 125
85 Cys Glu Ala Tyr Glu Glu Asp Arg Glu Thr Phe Met Asn Lys Phe Ile
86 130 135 140
87 Tyr Glu Ile Ala Arg Arg His Pro Phe Leu Tyr Ala Pro Thr Ile Leu
88 145 150 155 160
89 Leu Ser Ala Ala Gly Tyr Glu Lys Ile Ile Pro Ser Cys Cys Lys Ala
90 165 170 175
91 Glu Asn Ala Val Glu Cys Phe Gln Thr Lys Ala Ala Thr Val Thr Lys
92 180 185 190
93 Glu Leu Arg Glu Ser Ser Leu Leu Asn Gln His Ala Cys Pro Val Met
94 195 200 205
95 Lys Asn Phe Gly Thr Arg Thr Phe Gln Ala Ile Thr Val Thr Lys Leu
96 210 215 220
97 Ser Gln Lys Phe Thr Lys Val Asn Phe Thr Glu Ile Gln Lys Leu Val
98 225 230 235 240
99 Leu Asp Val Ala His Val His Glu His Cys Cys Arg Ala Asp Val Leu
100 245 250 255
101 Asp Cys Leu Gln Asp Gly Glu Lys Ile Met Ser Tyr Ile Cys Ser Gln
102 260 265 270
103 Gln Asp Thr Leu Ser Asn Lys Ile Thr Glu Cys Cys Lys Leu Thr Thr

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104          275          280          285
105 Leu Glu Arg Gly Gln Cys Ile Ile His Ala Glu Asn Asp Glu Lys Pro
106          290          295          300
107 Glu Gly Leu Ser Pro Asn Leu Asn Arg Phe Leu Gly Asp Arg Asp Phe
108 305          310          315          320
109 Asn Gln Phe Ser Ser Gly Glu Lys Asn Ile Phe Leu Ala Ser Phe Val
110          325          330          335
111 His Glu Tyr Ser Arg Arg His Pro Gln Leu Ala Val Ser Val Ile Leu
112          340          345          350
113 Arg Val Ala Lys Gly Tyr Gln Glu Leu Leu Glu Lys Cys Phe Gln Thr
114          355          360          365
115 Glu Asn Pro Leu Glu Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys
116          370          375          380
117 Tyr Ile Gln Glu Ser Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe
118 385          390          395          400
119 Gln Lys Leu Gly Glu Tyr Tyr Leu Gln Asn Glu Phe Leu Val Ala Tyr
120          405          410          415
121 Thr Lys Lys Ala Pro Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr
122          420          425          430
123 Arg Lys Met Ala Ala Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp
124          435          440          445
125 Lys Leu Leu Ala Cys Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His
126          450          455          460
127 Leu Cys Ile Arg His Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln
128 465          470          475          480
129 Cys Cys Thr Ser Ser Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu
130          485          490          495
131 Val Val Asp Glu Thr Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe
132          500          505          510
133 Ile Phe His Lys Asp Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Arg
134          515          520          525
135 Met Lys Gln Glu Phe Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile
136          530          535          540
137 Thr Glu Glu Gln Leu Glu Ala Leu Ile Ala Asp Phe Ser Gly Leu Leu
138 545          550          555          560
139 Glu Lys Cys Cys Gln Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu
140          565          570          575
141 Gly Gln Lys Leu Ile Ser Lys Thr Gly Ala Ala Leu Gly Val
142          580          585          590
145 <210> SEQ ID NO: 3
146 <211> LENGTH: 197
147 <212> TYPE: PRT
148 <213> ORGANISM: Homo sapiens
150 <400> SEQUENCE: 3
151 Thr Leu His Arg Asn Glu Tyr Gly Ile Ala Ser Ile Leu Asp Ser Tyr
152 1          5          10          15
153 Gln Cys Thr Ala Glu Ile Ser Leu Ala Asp Leu Ala Thr Ile Phe Phe
154          20          25          30
155 Ala Gln Phe Val Gln Glu Ala Thr Tyr Lys Glu Val Ser Lys Met Val

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156          35          40          45
157 Lys Asp Ala Leu Thr Ala Ile Glu Lys Pro Thr Gly Asp Glu Gln Ser
158          50          55          60
159 Ser Gly Cys Leu Glu Asn Gln Leu Pro Ala Phe Leu Glu Glu Leu Cys
160 65          70          75          80
161 His Glu Lys Glu Ile Leu Glu Lys Tyr Gly His Ser Asp Cys Cys Ser
162          85          90          95
163 Gln Ser Glu Glu Gly Arg His Asn Cys Phe Leu Ala His Lys Lys Pro
164          100          105          110
165 Thr Ala Ala Trp Ile Pro Leu Phe Gln Val Pro Glu Pro Val Thr Ser
166          115          120          125
167 Cys Glu Ala Tyr Glu Glu Asp Arg Glu Thr Phe Met Asn Lys Phe Ile
168          130          135          140
169 Tyr Glu Ile Ala Arg Arg His Pro Phe Leu Tyr Ala Pro Thr Ile Leu
170 145          150          155          160
171 Leu Ser Ala Ala Gly Tyr Glu Lys Ile Ile Pro Ser Cys Cys Lys Ala
172          165          170          175
173 Glu Asn Ala Val Glu Cys Phe Gln Thr Lys Ala Ala Thr Val Thr Lys
174          180          185          190
175 Glu Leu Arg Glu Ser
176          195
179 <210> SEQ ID NO: 4
180 <211> LENGTH: 192
181 <212> TYPE: PRT
182 <213> ORGANISM: Homo sapiens
184 <400> SEQUENCE: 4
185 Ser Leu Leu Asn Gln His Ala Cys Pro Val Met Lys Asn Phe Gly Thr
186 1          5          10          15
187 Arg Thr Phe Gln Ala Ile Thr Val Thr Lys Leu Ser Gln Lys Phe Thr
188          20          25          30
189 Lys Val Asn Phe Thr Glu Ile Gln Lys Leu Val Leu Asp Val Ala His
190          35          40          45
191 Val His Glu His Cys Cys Arg Ala Asp Val Leu Asp Cys Leu Gln Asp
192          50          55          60
193 Gly Glu Lys Ile Met Ser Tyr Ile Cys Ser Gln Gln Asp Thr Leu Ser
194 65          70          75          80
195 Asn Lys Ile Thr Glu Cys Cys Lys Leu Thr Thr Leu Glu Arg Gly Gln
196          85          90          95
197 Cys Ile Ile His Ala Glu Asn Asp Glu Lys Pro Glu Gly Leu Ser Pro
198          100          105          110
199 Asn Leu Asn Arg Phe Leu Gly Asp Arg Asp Phe Asn Gln Phe Ser Ser
200          115          120          125
201 Gly Glu Lys Asn Ile Phe Leu Ala Ser Phe Val His Glu Tyr Ser Arg
202          130          135          140
203 Arg His Pro Gln Leu Ala Val Ser Val Ile Leu Arg Val Ala Lys Gly
204 145          150          155          160
205 Tyr Gln Glu Leu Leu Glu Lys Cys Phe Gln Thr Glu Asn Pro Leu Glu
206          165          170          175
207 Cys Gln Asp Lys Gly Glu Glu Glu Leu Gln Lys Tyr Ile Gln Glu Ser

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208          180          185          190
211 <210> SEQ ID NO: 5
212 <211> LENGTH: 201
213 <212> TYPE: PRT
214 <213> ORGANISM: Homo sapiens
216 <400> SEQUENCE: 5
217 Gln Ala Leu Ala Lys Arg Ser Cys Gly Leu Phe Gln Lys Leu Gly Glu
218 1          5          10          15
219 Tyr Tyr Leu Gln Asn Glu Phe Leu Val Ala Tyr Thr Lys Lys Ala Pro
220          20          25          30
221 Gln Leu Thr Ser Ser Glu Leu Met Ala Ile Thr Arg Lys Met Ala Ala
222          35          40          45
223 Thr Ala Ala Thr Cys Cys Gln Leu Ser Glu Asp Lys Leu Leu Ala Cys
224          50          55          60
225 Gly Glu Gly Ala Ala Asp Ile Ile Ile Gly His Leu Cys Ile Arg His
226 65          70          75          80
227 Glu Met Thr Pro Val Asn Pro Gly Val Gly Gln Cys Cys Thr Ser Ser
228          85          90          95
229 Tyr Ala Asn Arg Arg Pro Cys Phe Ser Ser Leu Val Val Asp Glu Thr
230          100         105         110
231 Tyr Val Pro Pro Ala Phe Ser Asp Asp Lys Phe Ile Phe His Lys Asp
232          115         120         125
233 Leu Cys Gln Ala Gln Gly Val Ala Leu Gln Arg Met Lys Gln Glu Phe
234          130         135         140
235 Leu Ile Asn Leu Val Lys Gln Lys Pro Gln Ile Thr Glu Glu Gln Leu
236 145          150         155         160
237 Glu Ala Leu Ile Ala Asp Phe Ser Gly Leu Leu Glu Lys Cys Cys Gln
238          165         170         175
239 Gly Gln Glu Gln Glu Val Cys Phe Ala Glu Glu Gly Gln Lys Leu Ile
240          180         185         190
241 Ser Lys Thr Gly Ala Ala Leu Gly Val
242          195         200
245 <210> SEQ ID NO: 6
246 <211> LENGTH: 389
247 <212> TYPE: PRT
248 <213> ORGANISM: Homo sapiens
250 <400> SEQUENCE: 6
251 Thr Leu His Arg Asn Glu Tyr Gly Ile Ala Ser Ile Leu Asp Ser Tyr
252 1          5          10          15
253 Gln Cys Thr Ala Glu Ile Ser Leu Ala Asp Leu Ala Thr Ile Phe Phe
254          20          25          30
255 Ala Gln Phe Val Gln Glu Ala Thr Tyr Lys Glu Val Ser Lys Met Val
256          35          40          45
257 Lys Asp Ala Leu Thr Ala Ile Glu Lys Pro Thr Gly Asp Glu Gln Ser
258          50          55          60
259 Ser Gly Cys Leu Glu Asn Gln Leu Pro Ala Phe Leu Glu Glu Leu Cys
260 65          70          75          80
261 His Glu Lys Glu Ile Leu Glu Lys Tyr Gly His Ser Asp Cys Cys Ser
262          85          90          95

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/069,623

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Input Set : A:\06727.010002.SEQLIST.TXT

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date